abcam

Product datasheet

Recombinant human IGF1 protein ab119455

製品の概要

製品名	Recombinant human IGF1 protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli
アミノ酸配列	
アクセッション番号	P05019
生物種	Human
配列	The sequence of the first 5 N-terminal amino acids was found to be GPETL. N-terminal methionine has been completely removed enzymatically.
分子量	8 kDa
領域	49 to 118

特性

Our Abpromise guarantee covers the use of **ab119455** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生理活性	=>1x10^6 U/mg The ED_{50} as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is <= 1.0 ng/ml.
アプリケーション	Functional Studies SDS-PAGE
精製度	> 98 % SDS-PAGE. Purity by SDS PAGE is >98%.
製品の状態	Liquid
備考	Endotoxin Level <0.1 ng/µg of IGF1. For long term storage, the addition of a carrier protein is recommended. Storage in frost-free freezers is not recommended. This product should be stored undiluted.

前処理および保存

保存方法および安定性	Shipped at 4°C. Store at -80°C. This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

機能	The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose transport in rat bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake.
関連疾患	Defects in IGF1 are the cause of insulin-like growth factor I deficiency (IGF1 deficiency) [MIM:608747]. IGF1 deficiency is an autosomal recessive disorder characterized by growth retardation, sensorineural deafness and mental retardation.
配列類似性	Belongs to the insulin family.
細胞内局在	Secreted.